

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-001-BULK
Product Name: 103-F
Company Name: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Phone Number: +1 (562)695-1232
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 2A
Corrosive To Metals, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases: Harmful if swallowed.
Causes severe skin burns and eye damage.
May be corrosive to metals.

GHS Precaution Phrases: Keep out of reach of children.
Read label before use.
Do not get in eyes, on skin, or on clothing.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Take any precaution to avoid mixing with Acid Products

GHS Response Phrases: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Get immediate medical advice/attention.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.
Get immediate medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.
Get immediate medical advice/attention.

GHS Storage and Disposal Phrases: Store locked up.
Dispose of contents/container in accordance to local, state and federal regulations.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
6834-92-0	Sodium metasilicate	< 5.0 %
1310-58-3	Potassium hydroxide	<10.0 %
1643-20-5	Dodecyltrimethylamine oxide	> 5.0 %
112-34-5	Diethylene glycol monobutyl ether	< 5.0 %
68130-47-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	< 5.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

- In Case of Inhalation:** Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.
- In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid immediately.
- In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- In Case of Ingestion:** Never give anything by mouth to an unconscious person. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

- Flash Pt:** NA
- Explosive Limits:** LEL: N.A. UEL: N.A.
- Autoignition Pt:** NA
- Suitable Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or appropriate foam. Do not use full water jet.
- Fire Fighting Instructions:** Evacuate area and fight fire from a safe distance. Use proper personal protective equipment as indicated in Section 8.
- Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** irritating and toxic fumes and gases.

6. ACCIDENTAL RELEASE MEASURES

- Environmental Precautions:** Do not let product enter storm drains, storm sewers, watersheds or water systems unless authorized.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Precautions To Be Taken in Storing: Keep container tightly closed. Store in a cool dry place. Keep from contact with oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
6834-92-0	Sodium metasilicate	No data.	No data.	No data.
1310-58-3	Potassium hydroxide	PEL: 2.0 mg/m3	CEIL: 2 mg/m3	No data.
1643-20-5	Dodecyldimethylamine oxide	No data.	No data.	No data.
112-34-5	Diethylene glycol monobutyl ether	PEL: 50 ppm	TLV: 20 ppm	No data.
68130-47-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Avoid breathing vapors or mists. If airborne concentrations pose a health hazard or become irritating, use a NIOSH/MSHA-approved respirator, in the positive pressure mode.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Transparent. Yellow. Liquid.

pH: 13 - 14

Melting Point: No data.

Boiling Point: > 212.00 F

Flash Pt: NA

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: N.A. UEL: N.A.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.07 - 1.08
Solubility in Water: 100%
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: NA
Decomposition Temperature: No data.
Viscosity: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Incompatible materials, Excess heat.
Incompatibility - Materials To Avoid: Strong oxidizing agents. Strong acids, Metals.
Hazardous Decomposition or Byproducts: Hazardous decomposition products formed under fire conditions: Toxic fumes of sodium oxide, hydrogen gas, oxides of potassium.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Other Studies: CAS# 1310-58-3:
Acute toxicity, LD50, Oral, Rat, 273 mg/kg
Other Studies: CAS# 1310-58-3:
Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H

Other Studies: CAS# 6834-92-0:
Acute toxicity, LD50, Oral, Rat, 1000 mg/kg
Other Studies: CAS# 6834-92-0:
Standard Draize Test, Skin, Species: Rabbit, 250.0 mg, 24H

Other Studies: CAS# 112-34-5:
Standard Draize Test, Eyes, Species: Rabbit, 20.0 mg, 24 H

Other Studies: CAS# 112-34-5:
Acute toxicity, LD50, Oral, Rat, 5660 mg/kg

CAS# 1643-20-5: Dodecyldimethylamine oxide: Acute toxicity, LD50, Oral, Mouse, 2700. MG/KG.
Standard Draize Test, Skin, Species: Rabbit, 2.000 MG, 24 H.
Standard Draize Test, Eyes, Species: Rabbit, 1.000 %.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
6834-92-0	Sodium metasilicate	n.a.	n.a.	n.a.	n.a.
1310-58-3	Potassium hydroxide	n.a.	n.a.	n.a.	n.a.
1643-20-5	Dodecyltrimethylamine oxide	n.a.	n.a.	n.a.	n.a.
112-34-5	Diethylene glycol monobutyl ether	n.a.	n.a.	n.a.	n.a.
68130-47-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment:

CAS# 6834-92-0: Sodium metasilicate: LC50, Zebra Danio (Danio rerio), 210.0 MG\L, 96 H.

Other Studies: CAS# 1310-58-3:
LC50, Western Mosquitofish (Gambusia affinis), adult(s), 80000 ug/L, 96H, Mortality
Other Studies: CAS# 112-34-5:
LC50, Water Flea(Daphnia magna), 2850 mg/l, 24 H, Intoxication
LC50, Carp (Leuciscus idus ssp. melanotus), 1805 mg/l, 48 H, Mortality

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Potassium hydroxide, solution.

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN1814

Packing Group: III



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Potassium hydroxide, solution.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
6834-92-0	Sodium metasilicate	No	No	No
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
1643-20-5	Dodecyltrimethylamine oxide	No	No	No
112-34-5	Diethylene glycol monobutyl ether	No	No	Yes-Cat. N230
68130-47-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-,	No	No	No

mono-C8-10-alkyl ethers, phosphates

This material meets the EPA Yes No Acute (immediate) Health Hazard
'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard
for SARA Title III Sections Yes No Fire Hazard
311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
6834-92-0	Sodium metasilicate	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
1310-58-3	Potassium hydroxide	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes; PA HSL: Yes - E
1643-20-5	Dodecyltrimethylamine oxide	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
112-34-5	Diethylene glycol monobutyl ether	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Yes - Cat.; MA Oil/HazMat: No; MI CMR, Part 5: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - c
68130-47-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

Revision Date: 02/27/2018

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.